

8120

8255



NOTE BOOK

682

REG. U. S. PAT. OFF.

15¢

PLUS TAX IF APPLICABLE

Please return to:
Arthur Cronquist
New York Botanical Garden
Bronx Park
New York 58, N.Y.

\$5.⁰⁰ Reward

U. 564

Vol. 564

8120 - April 18, 1959

Open, gravelly, felsitic
southwest slope, with
sagebrush and Atriplex,
in first foothills 8 miles
southwest of Marsing,
Owyhee Co., Idaho.

Winter annual;
petals inconspicuous,
dull pale purplish, with
whitish margins, folded
along the midrib. What
appear to be last year's
plants are up to 1.5 m. tall
with pods 8-15 cm. long
that have a very short,
stout stipe up to about
1 mm. long. ~~Growing~~

Euphrasia latiflora (35)

~~with another,~~
~~apparently related~~
~~species which is a~~
~~spring annual, now mostly~~
~~still in the rosette stage,~~
~~with glabrous flower buds,~~
~~what appear to be last year's~~
~~plants of this latter species~~
~~are shorter and more~~
~~branched, with somewhat~~
~~shorter pods that totally~~
~~lack a tip above the calyx.~~

Caulanthus pilosus Wats.

Caulanthus pilosus (21) ✓

8121 April 19, 1959

Much branched low shrub

1-2 dm. tall on open ^{dry} slopes
and flats in the ~~first~~ first
foothills, 8 miles southwest
of Marsing, Owyhee Co., Idaho.
Flowers pale yellow.

Artemisia spinescens Eat.

Artemisia spinescens (35)

supra late flower (35)

8122 - April 19, 1959

Irregularly scattered
in dry flats in first
foothills, 5 miles south-
west of Marsing, Cuyahue
Co., Idaho.

Petals light yellow,
turning white in age.

Ranunculus testiculatus
Crantz

✓
✓
Ranunculus testiculatus

(11)

8123- April 19, 1959
Thinly and irregularly

scattered among sagebrush,
on rocky, gravelly, felsitic
south slope in first foot-
hills 8 miles southwest
of Marsing, Owyhee Co.,
Idaho.

Flowers pink. Calyx glandular,
the intercostal membranes
carinate. No other phlox
seen in the vicinity.

Phlox aculeata A. Nels.

Phlox

(1)

Supremis latiflorus (35)

8124 - April 20, 1959

With sagebrush on open
south slopes 15 miles
southwest of Marsing,
Arwyhee Co., Idaho.

Bracts ranging from
deep pink to ^{more often} scarlet
or fiery red, with
intermediates, the plants
otherwise looking alike.

Castilleja chromosa A. Nels.
Dupl. det. Marion Cronberg

Castilleja angustifolia, passing
to var. *chromosa* (5)

8125 - April 20, 1959.
Same place as 8124.
Dish yellow; rays very
short, light yellow.

Erigeron chrysopsidis Gray
ssp. *austinae* (Greene) Cronq.

Erigeron C. ssp. *austinae*

✓
(3)

Erigeron latiflorus (35)

8126- April 20, 1959
Rocky seale in sage-
brush plains south of
the Owyhee River, 13 miles
southeast of Rome, ^{Twp. 32 S.,}
Malheur Co., Oregon, ^{R. 42 or 43 E.}
Elev. about 4000'.

Upper petals dark purple;
lower petals paler (sometimes
even white) with yellow
base and usually with
some darker purple lines.
Details of color and pattern
vary from plant to plant.

Viola ~~beckwithii~~ ✓
beckwithii T. & G. ✓

Viola *beckwithii* (35)

8127. April 20, 1957

Common on sagebrush
plains south of the Oregon
River, 13 miles southeast
of Rome, Wallowa Co.,
Oregon. Elev. about 4000'.
Flowers yellow.

Lomatium cune (Wats.) Coul.
+ Rose

✓
(16)

cons. circ. red
superior 1/16 in. 35

10.1.1959

- On north facing
 basaltic cliff-ledge above
 stream along the Douglas
 River 3 miles southeast of
 Rome, Wheeler Co., Oregon.
 Elev. about 3500. Temp 22.5 P.
 Shrub 2.5-1.5 m. tall. S.E.
 Flowers white to pinkish
 or pink and white, the
 buds more consistently
 pinkish. Nodal spines
 3 on some plants, 1 on
 others. Note glabrous flowers.

Ribes velutinum Greene
 var. *gooddingii* (Peck) C. L.
 Hitchc.
Ribes aff. *velutinum* (20)

8129 - April 21, 1959.

With scattered sagebrush
on barren, dry, sandy
slopes and ridges just
southeast of Crooked Creek,
near Rome, Malheur Co.,
Oregon. Elevation about
3500-4000 feet. Flowers
white. Plants common
at this site, but mostly
not yet in flower.

Twp 32S., R. 41E., S. 6

Rhysopterus plurijugus
Coulter + Rose

Rhysopterus

superus (T. & G.) '35

E 30 - April 21, 1959
With scattered sage-
brush on dry, sandy
flat ridge tops just
southwest of Crooked Creek,
near Rose, Malheur Co.,
Oregon. Elev. about 3500-
4000. Twp. 32 S., R. 11 E., S. 6
Petals white; anthers
yellow.

Lloydia serotina Reichb.

Lloydia

✓
35

8131 - April 1, 1937

Sagebrush slopes 6 miles
southeast of Burns, Harney
Co., Oregon, near the

Malheur Co. line, Twp. 36N.

282. R. 302. ^{eye about 5' 00"} 2.25-2.6. Petals

yellow, most commonly 5,
but sometimes 6, 7, or
especially 8, these higher
numbers chiefly on later
flowers.

Ranunculus glaberrimus
Hook.
var. *glaberrimus*

(34)

var. *glaberrimus*
superior 1.1.1. 351

April 22, 1959

dry slopes with

Artemisia tridentata

near Indian Creek Hotel

6 miles southeast of

Burns, Harney Co., Oregon

near the Malheur Co.

line. Twp. 28 S, R 36 E.

S. 25 26, ^{Sec. 15} Flowers white.

Plants rather scarce

Young fruits glabrous or

with very short, stout,

apparently simple hairs

Draba douglasii Gray

var. *douglasii*

Draba (5)

6133. April 22, 1954

With sagebrush and
juniper in small swale
along dry wash near
Indian Creek Butte, 60
miles southeast of
Burns, Harney Co., Oregon,
near Oregon-Calif. line.

Twp. 28 S., R. 36 E., S. 25.

Flowers pink purple; Stamens
nearly black, without a
prominent filament. Tubic.
Plants already beginning
for lack of water. Shrub.

Dodecatheon ~~double~~ conjugens
Greene var. conjugens

Dodecatheon (5)
superior 11/15/54 (35)

534 - April 22, 1959

Penstemon arbuscula
on dry slopes near Indian
rock Butte, 60 miles
southwest of Burns,

Harney Co., Oregon, near
the Malheur Co. line.

Twp. 28 S., R. 36 E., S. 2 E.

Elev. about 5000 feet.

Flowers purple.

Phoenicautis cheiranthoides
Nutt.

Phoenicautis (4)

8135 - April 22, 1959

With *Antennaria* - *lucida*
on ridge-top near Indian
Creek Butte, 6 miles
southeast of Burns,
Harney Co., Oregon, near
the Malheur Co. line.

Twp. 28 S, R. 36 E, S. 27.
Elevation about 5000

Upper petals rich dark
purple; lower petals paler
or even white, with a
yellow base and commonly
with some darker purple
lines, but variable from plant
to plant.

Viola beckwithii T. & G.

Viola beckwithii (6) ✓
Supina (11) (35)

2535 - April 22, 1959
Willow, *Salix arbuscula*
on dry, rocky ridge top
near Indian Rock Butte,
60 miles southeast of
Burns, Harney Co., Oregon,
near the Malheur Co. line.
Twp. 28 S., R. 36 E., S. 25.
Elev. about 5000'. Flowers
pink-lavender to nearly
white.

Phlox hoodii Rich.

Phlox hoodii (D)

8137 - April 22, 1959

With juniper and
Artemisia arbuscula in
dry rocky soil on ridge. Top
near Indian Creek Butte,
60 miles southeast of
Burns, Harney Co., Oregon,
near the Malheur Co. line.
Twp. 28 S., R. 36 E., S. 25
Elev. about 5000' Flowers
yellow.

Lomatium cune (Wats.)
Coulter & Rose

Lomatium cune (Wats.)
Coulter & Rose (35)

3138 - April 22, 1959

With *Eriogonion arbuscula*
on dry rocky ridge. Tops
near Indian Creek Butte,
60 miles Southeast of
Brons, Harney Co., Oregon
near the Malheur Co. line.
Twp. 28 S., R. 36 E., S. 25.
Elev. about 5000 feet.
Leaves somewhat blue-green

Lomatium canbyi Coulter.
+ Rose

✓

(18)

Lomatium canbyi ✓

8139 - April 22, 1959

Same place as 8137

Flowers bright lavender

Sisyrinchium douglasii
A. Dietr.

/

✓

Sisyrinchium douglasii (E)
Superior 1st 1/2 mi. 351

840 April 22, 1959
Same place as 8138.

Flowers pale, tinged
with pale pink - bracts
and pale yellowish.

Astragalus salmonis Jones

Det. R. C. Barneby

377
Astragalus (2)

8141 - April 23, 1959. Moderately
moist, alkaline soil along
small intermittent tributary
to the South Fork of the
Malheur River, 30 miles
south of Junction, Harney
Co., Oregon. Twp. 25 S.,
R. 36 E., S 15. Elev.
about 3500'. Flowers
white to pale lavender.

Hesperochiron
californicus (Benth.) Wats.

Hesperochiron calif. 35
Hesperochiron calif. (35)

8142 - April 23, 1959
Open sandy slopes beneath
a high rise caprock in
a grassy brush country
overlooking the Smith
Fork of the Snake River,
30 miles south of Tontona,
Harney Co. Oregon, Twp. 25S,
R. 36E, S. 15. Elev. about
3500'. Flowers bright pink;
petals notched on some
plants, not on others.

Phlox longifolia

Phlox longifolia - (3)

51-5 April 23. 1909

Barren, rocky (rhyolitic)

Spots in sagebrush country
overlooking the South Fork of
the Malheur River, 30 miles
south of Juntura, Harney

Co., Oregon. Twp. 25 S., R 35 E.,
S. 15. Elev. about 3500-4000

feet. Leaves convex on one
side, flat or slightly

channeled on the other. Flowers
white, the small dark
anthers hardly reaching the
broad margins of the tepals.
Plants just beginning to bloom.

$2N = 14$.

Allium parvum K. & A. ✓

~~det.~~ det. Harney County

Trifolium (35)

8144 - April 3, 1959

Compact, scaly basaltic
takes on gentle south-
west slope in sagebrush
country 22 miles south
of Ventura, Matheon Co., Oregon.
Twp. 24 S, R 37 E, S. 9. Elev. about 3500'

Plants mephytic and
very glandular. Flowers
off-pink.

Microsteris gracilis (Hook.)
Greene
var. *humilior* (Hook.) Cronq.

✓
Microsteris (31) ✓

8145 - April 23, 1959

Same place as 8144.

Roots woody-fibrous,
not tuberous. Sepals and
lower petals dark blue.

Upper petals whitish
with blue lines, shallowly
notched. Lower petals
blended, deeply notched.

Delphinium nuttallianum

Pritz., sens. lat.

Delphinium (35)
Supina (35)

8146 - April 26 1957
East slope of clay knoll
in sagebrush country,
about mile west of
the Middle Fork of the
Malheur River, 17 miles
west of Juntura on the
road to Burns, Harney Co.,
Oregon. Near the corner
of Twp 20-N., R. 35-E.
Elev. about 3500 feet

Perianth white or tinged
with pale lavender;
anthers lavender. Flowers
and scape flat. $2N = 14$.

Allium tolmei Baker & Wats.
deeph. det. Marion C. C. C.

420

Allium *t. tolmei* (35)

8147 - April 27, 1957.

Rocky east slope in sagebrush
country overlooking the
Malheur River, 2 miles ^{north-east}
of Juntura, Malheur Co.,
Oregon. Twp. 21S., R. 38E.

Elev. a little over 3000'.

Plants viscid as usual
spreading hairy. Rays mostly
about 13 or about 8.

A distinctive, well marked
population here, but compare
members 8148 and 8149.

Balsamorhiza hirsuta Nutt.

23

Lupinus albus (L.) (35)

Same place as B147. Differing
from the associated *B.*
hirsuta in its smaller
size (notably smaller seeds
with shorter rays), more
appressed, non-viscid
pubescence, less dissected
leaves, less well developed
cauline bracts, and
shorter ^{more appressed}, mostly not caudate
involucral bracts, but much
of the population showing
some tendency toward the
characters of *B. hirsuta*, as
if introgression were occurring
in one direction only.

At this locality we do not

see the areal replacement
pattern, with obvious
hybrids along the contact
zone, that can so often
be seen in the genus.

Balsamorhiza hockeri Nutt.
var. *neglecta* (Sharp) Cronq.

Balsamorhiza hockeri (22)
Lupinus latifolius (35)

8149- April 27, 1949

Same place as 8147.

With the presumed parents,
but not necessarily an
F₁. Compare no. 8148.

Putative introgressant;

Balsamorhiza hookeri Nutt.

var. *neglecta* (Sharp) Cronq.

contaminated by

B. hirsuta Nutt.

B. hirsuta x *B. hookeri* var. (2)

6150 - April 27, 1949
Same place as 8147. Stems
clustered on a taproot
and branching caudex.
Flowers pink-purple.
Pod broadly-reniform in
cross-section, broadly
and shallowly sulcate
on the abaxial side,
glabrous, 1-celled,
rather thick-walled.

Astragalus conjunctus Wats.

det. R. C. Barneby

Astragalus

(7)

Supina 216 (35)

2151 April 27, 1959.

Grassy slope, overlooking
the Walla Walla River, 2 miles
northwest of Benton, Walla Walla
Co., Oregon. Twp. 21 S., R. 38 E.

Elev. about 3500'. Flowers
white to pinkish, the
dark anthers not reaching
the broad, blunt tips of
the styles. Leaves concave
on one side, flat on the
other. $2N=14$.

Adiantum parvum Kell.

Rept. det. Marion Coulter

509

Adiantum parvum 8143

✓ ✓
(35)

8152 - April 25, 1951

Open, rocky south slope
overlooking the Malheur
River, $\frac{1}{2}$ miles east of
Juntura, Malheur Co.,
Oregon. Twp 21 S, R 38 E.
Elevation about 3000-3500.

Flowers blue-purple,
the throat nearly closed
by the palate.

✓
Scutellaria anti-rhynoides
Benth.

Scutellaria 32)
Supina 35)

8153 - April 28, 1959

Open, rocky slopes and
meadows in bunchgrass

currently overflown by

the Arthur River, $1\frac{1}{2}$ miles

east of Juntura, Malheur
Co., Oregon, Twp. 21 S., R. 38 E.

Elev. about 3500'. Petals

12-20, white to occasion-
ally pale pink.

Lewisia rediviva Pursh

✓

Lewisia rediviva (L) ✓

8154 - April 28, 1959

Rachy ridge top in
brushy country over-
looking the Malheur River
 $1\frac{1}{2}$ miles east of Jewetta,
Malheur Co., Oregon, Twp 21S, R 38E.
Elev. about 3500'. Postma-
ture flowers have dark purple
wings and disk, the banner
apparently paler. Pods
conspicuously white -
usually, the leaves more gray.

Astragalus purshii Dougl.
var. *glaberrimus* (Dougl.) Barnaby

det. R. C. Barnaby

Astragalus (4)
Supines 1/16 in (35)

April 8. 1919

Same place as 8154.

Petals white, conspic-
uously shorter than
the purplish sepals.

Arenaria franklinii Dougl.

Arenaria

(2)



8156 - April 23, 1959

Open, rocky south
slope overlooking the
Malheur River $1\frac{1}{2}$ miles
east of Juntura, Malheur
Co., Oregon, Twp. 21 S, R 38 E.
Elev. about 3500'. Rays
3-8, white; disk yellow

Layia glandulosa (Hook.) H. & A.

Layia glandulosa ³⁵
Lupinus latifolius (35)

8157 April 28, 1949

Same place as 8156.

Plants scarce. Flowers
yellow.

Malacothrix torreyi Gray



591

Malacothrix

3

8158 - April 29, 1957

Dry open slopes with
sagebrush, 1 1/2 miles west
of Juntura, Harney Co.,
Oregon. Twp. 21S, R. 38E, S. 18
Elev. about 3000'. Flowers
minute, white. Nutlets
occurring in pairs. The
nutlets are dissimil-
lar.

Pectocarya setosa Gray

P. toaraya setosa
fulvescens (Gray) (35)

8159. *Opuntia*

Same place as 8158. Flowers
white. Petals slightly
angular, closed, swollen
toward the base.

Erythraea pterocarya

(Torr.) Greene

var. *pterocarya*

✓

Erythraea pterocarya (8)

✓

8150 April 29, 1959

Lamproloma B. B. F. ...
orange yellow. Two of the
5 sepals connate nearly
to the tip.

Amsinckia tessellata
Gray

Amsinckia tessellata (4)
Lupinus ... (35)

8161 - April 27, 1959

Rocky (basaltic) clay flats
with juniper and Artemisia
trifida on plateau. Top
of south of Drinkwater
Pass, 12 miles west of
Juntura, Harney Co.,
Oregon. Twp. 20S., R. 36E.,
S. 35.
Elev. about 4400'.

Abundant, but just
beginning to bloom.

~~Artemisia~~
Balsamorhiza hirsuta ~~Nutt.~~
Nutt.

Balsamorhiza hirsuta

8162 - April 29, 1959.

Dry, open rocky slopes
much sagebrush, along
the Malheur River 18 miles
below Juntura. Malheur Co.
Oregon. Elev. about 2500
feet. Twp: 05, R: 40E., S: 32
Flowers ochroleucous,
almost white.

Eriogonum ovalifolium Nutt.
var. *ovalifolium*

Eriogonum - all white

Lupinus (in fruit) (35)

T163 - April 30, 1959.
Scattered small trees
in the flats and hills
along the Malheur River
2 miles below Pentura,
Malheur Co., Oregon, Twp. 21 S., R. 38 E.,
Elev. about 2900'. Trees (S. 3.)
mostly 15-20 feet tall,
tending to have an
insect Central trunk.
Leaves becoming brown under
the dense pale blue
f. bloom.

Juniperus occidentalis
Nutt.

Juniper

(4)

\$164. April 30, 1959

Shrub 2-4 m. tall
along the banks of the
Malheur River about 7
miles above Harper,
Malheur Co., Oregon. Twp. 20S.,
R. 41E., ^{S. 33} Elev. about 2500'.
Bark rather pale and
smooth, compared to
other spp. near by. Stamens
etc. rather post-mature,
with black scales.

Salix rigida Muhl.
var. *mackenziana* (Hook.)

Cronq.

Lupinus latifolius (35)

7157 - April 30, 1959

A weed in waste places
near the highway along
the Malheur River about
3 miles above Harper,
Malheur Co., Oregon. Twp. 20 S.,
R. 41 E. Elev. about 2500.

Common here and throughout
the region. Plants
with a sickly-sweet smell.
Flowers lavender-purple.

Chorispora tenella (Pall.)
DC.

Chorispora

(10)



\$166 April 30 1957

Shrub about 1 m. tall
on basaltic ledge, and
takes near the Malheur
River, about 3 miles above
Hager, Malheur Co., Oregon.
Twp 20 S., R. 41 E.

Fls. about 2500'. Some
flowers apparently actually
pistillate. Others both
staminate and pistillate.
Fruits not quite ripe.

Grayia spinosa (Hook.) Moq.

Grayia (13)
Supina (35)

67 - April 30, 1917
Growth along the Malheur
River about 8 miles above
Hager, Malheur Co. Oregon.
Twp. 20 S., R. 11 E.

Fls. about 2500 feet.

Corolla broadly campanulate,
lavender with
white center, or
occasionally wholly white.

Memphila kirtleyi Henderson

Memphila kirtleyi 55

8168 - May 2, 1959

West-facing slope
steep surface covered
with pale gray chips
of volcanic tuff. New
brush country 3 miles
southwest of Harper,
Mont. Hwy 3, Craig. Twp.
20S., R. 41E., S24. Elev. about 2500
Flowers white, sepals
pinkish in bud. Leaves
fleshy the larger ones
sometimes with a few
short lateral teeth-like.

Chaenactis cusickii Gray

Chaenactis cusickii 35
Leucophaea 35

3449 - May 2.

10000 ft. - 10000 ft.

Petals widely spreading
corolla purple, lobes
light yellow. $2N=14$.

Allium Lemmonii S. Wats.
diagn. det. Marion Cramley

Allium

(35)



8170 - ~~May 2, 1959~~

Clay hills in sagebrush
country 3 miles south-
west of Harper

Walcher Co., Oregon, Twp.
20S., R. 41E., S. 24. Elev. about

2500. Plants scarce,
apparently winter annual
perhaps biennial.
Petals short and
inconspicuous, the
uppermost margins of the
lower petals purple.

Caulanthus pilosus Wats.

1. Flowering plant, May 2, 1959

2. Fruits, June 7, 1959 ✓

Lupinus albus L. (35)

T. 171 - May 2, 1959.
L.
F.

Phacelia lutea (H. & A.) J. T.
Howell
var. *lutea*

242

Phacelia lutea (H. & A.) J. T.
Howell

817: May 3, 1959 - South
slopes of lower hills.
the soil covered with
fine gray chips of
~~diatomite~~ volcanic tuff; sagebrush
country 3 miles south
of Harper, Malheur Co.,
Oregon. Twp. 20S, R. 41E., about S. 24
E., about 2500'.
Flowers bright yellow.
Pods pendulous and
spreading pedicels.

Cleome platycarpa Torr.

(33)

Lupinus hispidus (35)

May 3, 1957

place B 172

Stems ascending or
erect. Rays light
lavender, much
denser than is typical
for the species.

Townsendia florifer (Hook.) Gray

Townsendia florifer (3)

8174 - May 3 1959. Sage.

brush slopes in mol.

coarse buff area 3

miles south of
Barrow, Alaska.

Top 20 S., R 41 E., about S. 24.

Elev. about 2500 feet.

Astragalus purshii Dougl.
var. *glareosus* (Dougl.)

Barneby

det. R. C. Barneby.

①
Lupinus latifolius 351

8175. May 3, 1959
Barren gentle slope in
open brush country
3 miles south of Harper,
Madison Co., Oregon, Twp.
20S, R. 42E, S. 19 Elev. 2500.

Soil derived from volcanic
tuff. Plants rosette-
forming; flowers white.
Only a few plants seen.

Physopteris plurijugis
Coulter & Rose.

✓

Physopteris

(D)

✓

8176 - ~~May 3, 1959~~

Same place as 3172.
Flowers light yellow.
Herbage strongly
glaucous. Biennial

Stanleya confertiflora
(Robins.) Howell

(5) much. Flowering plants,
May 3, 1959.

(5) much. Fruits and new
plants, June 7, 1959.

Lupinus latifolius (35)

3177 - May 3, 1957

Same place as 3172.

Flowers pink-purple.
Only a few plants seen.
Anthers glabrous.

Penstemon miser Gray.

Penstemon D



8178 - May 3, 1959

Shrub 1-1.5 m. tall
in sagebrush country
3 miles southwest of
Harper, Malheur Co
Oregon, Twp. 20S., R. 41E., S. 27
Elev. about 2500 feet.
Soil derived from diatomite,
~~volcanic tuff~~. Flowers
light yellow.

Purshia tridentata (Pursh)
DC.

Purshia

Lupinus latifolius (35)

6179. March 1955.

Rocky sandy west
slopes in sagebrush
country 11 miles south-
west of Vale, along the
road to Jasper, Garfield
Co., Oregon. Twp. 19S, R. 43E,
S. 23. Elev. about 2500.

Plants with short tap-
root, the stems usually
several and compact caudex,
but sometimes solitary.
Herbage glaucous. Flowers blue.

Penstemon acuminatus
Dougl.

✓
Penstemon acuminatus (25)

350 May 4, 1959

Same place as 6179.

Flowers blue-lavender.
Plants sparse.

Gilia sinuata Dougl.,
sens. lat.

Gilia sinuata - ①
Supernumerary 351

May 11, 1953
Rampart, Larimer and
sandy slopes in
sagebrush country, 11
miles southwest of
Vale, along the road to
Harper, Malheur Co, Oregon.
Twp. 19 S. R. 43 E., S. 23.
Elev. about 2500'.
Flowers yellow. ↑
Abundant.

Mentzelia albicaulis Dougl.

Submature seeds roughen-
ed-reticulate.

Mentzelia albicaulis (25)

5. 2 - May 1919

Barren, sandy east slope
in sagebrush country -
No. 3181. Flowers
rich red-purple, more
deeply so in the throat,
the lower lip marked
with yellow.

✓

Mimulus nanus H. & A.

Lupinus latifolius 351

5183 - May 4, 1901
Same place as 5182.

Flamers pink, purple,
the banner with a
paler central spot.

Pads notably spread-
ing - villous rather
than tomentose.

Astragalus nudisiliquus
A. Nels.

det. R. C. Barneby

Astragalus (12)

8184 May 4, 1955

Yellow sandy sagebrush
slopes 11 miles southwest
of Vale, along the road to
Harper, Malheur Co., Oregon.
Twp. 19S, R 43E., S 23. 2500
Stems clustered on a
taproot and branching
caulices. Flowers numerous,
very light blue, nearly
white.

Hackelia patens (Nutt.) Johnston.
var. *semiglabra* Cronq.

1 Holotype; 7 Isotype

Hackelia patens (8)
Lupinus latifolius (35)

Most indigenous
on rocky clay slopes,
with sagebrush but
especially in the more
barren places, 11 miles
northwest of Linn, Ore.
Twp. 19S., R. 34E., S. 29.

Elev. about 4000'.

Pedicels pale lavender
to practically white,
the anthers more dis-
tinctly lavender or
pink-lavender, $2N=14$.

Allium tolmei Baker ex Wats.
Dupl. det. Marion O'Connell

Allium tolmei ✓ (15)

8176 - May 5, 1957.

With sagebrush on
rugged clay slopes
11 miles northwest
of Doreusey, Harney Co.,
Oregon. Twp. 19 S., R. 34 E.
S. 24. Elevation about 4000'.
Fls. scarlet to orange
or pale brick-red, rarely
fading toward the
pink.

Castilleja chromosa A. Nels.
dupl. det. Marion Cunniff

Castilleja (32) ✓
Lupinus (35)

187. May 5, 1959
Flowers pink-purple.
Plants scarce.

Astragalus purshii Dougl.
var. *glaberrimus* (Dougl.) Barneby

Det. R. C. Barneby

Astragalus (1) ✓

8188- May 5, 1959. In good
soil with sagebrush just
west of 1st creek, 40
miles northeast of Burns,
Harney Co., Oregon. Elev.
2100' and 4000'. Twp. 20 S.,
near border of R. 33 $\frac{1}{2}$ and 34
E. Stems clustered and
a taproot and caudex.
Flowers blue, the
banner with a central
light spot.

Lupinus saxosus Howell

Lupinus (35)

Lupinus (35)

7/1/27 Aug 1. 1927
Rather sandy soil in
sagebrush desert 40
miles west of Burns,
Harney Co., Oregon.
Twp. 23 S., R. 25 E., S. 27
Elev. 4400'. Perianth
white; anthers yellow.

Lloydia serotina Reichb.

Lloydia

(5) ✓

8190. May 7

Small shrub in sage-
brush desert 40 miles
west of Burns, Harney Co., Oregon.
Twp. 23 S., R. 25 E., S. 29
Elev. 4400'. Plants loosely
tufted, irregularly
spreading by slender
creeping roots. Flowers
white.

Polyctenium fremontii
(Wats.) Greene

Polyctenium

(8)

Lupinus latifolius

(35)

6171 - May 7, 1959

dry, sandy soil
on north slope in

sagebrush desert
40 miles west of Burns,
Harney Co., Oregon.

Twp. 23 S., R. 25 E., S. 32

Elev. 4500'. Flowers

lavender to nearly white

Phlox hoodii Rich.

Phlox hoodii (5) ✓

8192 - May 7, 1959.

Sagebrush desert 48 miles
west of Burns, Harney Co.

Ore., pr. Twp. 23S, R. 24E,
S. 19. Elev. 4500'.

Plants taprooted and
probably also spreading
by creeping roots.

Flowers whitish or
faintly pinkish

Trifolium gymnocarpon
Muhl.

var. *plummerae* (Wats.)
Martin.

Claver. (2)

Lupinus (35)

6193- May 7, 1959
Lomatium nevadense
Flowers white.

Lomatium nevadense (Wats.)
Coulter & Rose

✓
Lomatium nevadense ③

8194-May 7, 1959

With *Artemisia arbuscula*
in sagebrush desert 48
miles west of Burns,
Harney Co., Oregon.

Trps. 23 S., R. 24 S. S. 19

Elev. 4500'. Flowers
bright purple, the
banner with a paler
spot. Last year's pods
small, only about 1
cm long, with sharply
upturned tips.

Astragalus purshii Dougl.
var. *lagopus* (Rydb.) Barnh.
det R. C. Barnh.

Astragalus (3)

Lupinus latifolius (35)

1955 - May 7, 1955

Rocky heavy clay soil.
with *Artemisia arbuscula*,
near Camp Creek, at the
base of the Many
Hills, 23 miles northeast
of Brotherton, Crook Co., Oregon.

Flowers dull whitish or
obscurely pinkish, the
lobes tipped with dark
purple. Sub-mature pods
condute in cross-section,
deeply sulcate on the
abaxial suture.

Astragalus obscurus Wats.

det. R. C. Barneby

(*Astragalus*

8

8196 - Same place as 8195
Flowers yellow. Leaves
blue-green.

Lomatium donnellii Coult.
+ Rose

Lomatium (4) ✓
Lupinus (35)

May 7, 1950

Washed clay soil
with juniper and
sagebrush and locust
near Camp Creek, at the
south base of the Maury
Mountains, 23 miles
northeast of Brothers,
Crook Co., Oregon.

Leaves bright green, not
glaucous. Flowers yellow.

Lomatium vaginatum
Coulst. & Rose

Lomatium

(3)

✓

✓

1958 May 7, 1959

With rabbitbrush in
heavy red clay soil on
slope near Camp Creek,
at the south base of the
Maury Mts., 2-3 miles
northeast of Brothers,
Crook Co., Oregon.

Roots thickly fibrous,
not fleshy. Flowers blue.

Delphinium nuttallianum
Pritz., sens. lat.

Lupinus latifolius (35)

8179 - May 8, 1959

Wich saginaw in grassy
soil at edge of ponderosa
pine woods, atop the
Maury mts., 30 miles
northeast of Brothers,
Baker Co., Oregon.

Leaves somewhat glaucous.
Pet. mature flowers white.
Fruiting peduncles weak,
prostrate or nearly so

Lomatium gormanii (Howell)
Coulter & Rose

Lomatium

✓ (20)

8200 May 8 1959. Open,
rolling slopes, with
juniper and Artemisia
arbuscula, 16 miles north
east of Brothers, Grant
Co., Oregon.

Haplopappus lanuginosus Gray
var. *lanuginosus*

Haplopappus lanuginosus
(16)

Lupinus latifolius (35)

May 8, 1905

Along the bottom of a dry
wash in sagebrush-juniper
country, 16 miles
northwest of Brothers,
Grant Co., Oregon.

= *Claytonia linearis*

Claytonia linearis Dougl.

(12.1)

Claytonia

(18)

8202 - May 8, 1957.

In sagebrush - juniper
community along Bear
Creek, 16 road miles
north of Brothers,
Grant Co. Oregon.

Low-sleeping canid
napping to occasionally
being white

Phlox hoodii Rich.

①
Lupinus 351

8203. May 10, 1909
Dry soil in park. Like
dry meadow in pine woods
at the edge of the mountains
13 miles west of the town
of Silver Lake, Lake Co.,
Oregon. Twp. 28 S.,
R. 12 E., S. 28. Elev.
5000'. Flowers white.

Lloydia serotina Reichb.

Lloydia (5)

5234 May 10, 1959

Same place as 8203.
Corolla white, calyx
white to purplish.

Spraguea umbellata Torr.

Spraguea 35

Lupinus hispidus (35)

8205 - May 10 1969
Same place as 8203.
Flowers white.

Claytonia linearis Dougl. ✓

Claytonia 6 ✓

8206 - May 10, 1958

Went out to Bear Flat,
a draw in ponderosa
pine forest 15 miles west
of the town of Silver

Lake, Clatsop Co., Oregon.
Twp. 28 S., R. 11 E., S. 26.
Elev. about 5000'

Flowers yellow

Petals 5-8.

Ranunculus alismifolius

Geyer

var. *hartwegii* (Greene) Jeps.

Ranunculus

(11)

Lupinus latifolius (35)

8207 May 11 1952

dry soil 15 miles
east of Kamath Falls,
Kamath Co., Oregon
Elev. 4200'.

Plants erect to nearly
prostrate, tufted or
a taproot and appar-
ently also irregularly
spreading by creeping
roots or stems; flowers
white.

Polyctenium fremontii
(Wats.) Greene

Polyctenium

(9)

8208 - May 11, 1959. Rocky
soil in open mixed scrub.

of juniper, *Quercus* spp., and
a dense pine: foot hills
27 miles northwest of Lamath
Falls, Lamath Co., Oregon.
Flowers lavender to
nearly white.

Elev. about 4500'.

Style 4.5-6 mm long.

Phlox diffusa Benth.
var. *longistylis* (Wherry)
Pech

Phlox diffusa (21)

Lupinus latifolius (35)

2009. May 11. 2009

In partial shade in
ravine in mixed
juniper - Cercocarpus -
ponderosa pine scrub;
27 miles ^{near Elk Pass} northeast of
Klamath Falls, Klamath
Co., Oregon.

Elev. about 4500'.
Flowers yellow.

Viola nuttallii Pursh
var. *major* Hook.

yellow violet (3)

8210 - May 11 1959 Same
place as 8209.

Athyrium pusillum. (Hook.)
Greene

Athyrium pusillum

(6)

Athyrium pusillum (35)

211 May 11, 1959

Camp Cacas 8 to 9.

F flowers blue and white.

Collinsia parviflora Lindl.

(17) *Collinsia parviflora*

8212 May 19

Same place as 8209.

Flowers pink-lavender.

Microsteris gracilis (Hook.)

Greene

var. *humilior* (Hook.) Cronq.

Microsteris gracilis ③

Lupinus latifolius ③

8213 May 11, 1964
Camp Caccia 8209.
Flowers white.

Claytonia perfoliata Donn,
sens. lat.

Claytonia - broad leaf

✓ (3)

8214 - May 11, 1959
Same place as 8209.
Flowers white.

Polemonium microanthum
Benth.

(20)

Polemonium microanthum

Lupinus latifolius (35)

525 - May 11

Much branched, thorny
shrub 1-3 m. tall
in juniper - Cercocarpus-
panderosa pine scrub
27 miles northeast of
Klamath Falls, near
Bly pass, Klamath Co., Oregon.
Elev. about 4500'.
Flowers white.

Prunus subcordata Benth.

Prunus

⑦

5216. May 11 1919

In fairly moist, shaded
sites along an inter-
mittent (now dry)

streamlet in mixed
juniper - Cercocarpus -

ponderosa pine scrub

27 miles northeast of

Klamath Falls, near

Sage Pass, Klamath Co.,

Oregon. Elev. about 4500.

Flowers white

Claytonia linearis Dougl.

Claytonia (8)

Lupinus latifolius 351

4217 - May 12, 1959
Rocky soil with

Erigeron acrisculus and
Erigeron annuus, just
north of the Rogue
River, 4 miles east of Bly,
Linn Co., Oregon.

Trimp. 37 S. R. 15 E.

Elev. about 4500'. Heads
yellow. Most plants ap-
parently rayless, but one
plant had evident, short,
narrow, dull white (!) rays.

Erigeron chrysopsidis Gray
ssp. *austinae* (Greene) Cronq.

Erigeron : *austinae* !

✓ (5)

8218. May 12, 1959

Same place as 8217.

Bracts pale yellowish green.

Castilleja longispica A. Nels.
dupl. det. Marion Cranney

Castilleja

Supina is different (35)

8219 May 12, 1959

Same place as 8217.

Stems solitary, or
less often 2-several.
Flowers lavender.

Arabis lignifera A. Nels.

Arabis - *hutchinsii* type (17)

8220 - May 12, 1959

Same place as 8217

Arabis sparsiflora Nutt.
(Note short pedicels)

Arabis - anemalis pads (2)

Lupinus latifolius (35)

8221 - May 12, 1959

Fl. on steep slope in semi shade
along the Sprague River
4 miles east of Bly,
Klamath Co., Oregon.

Trwp. 37 S., R. 15 E.

Elev. about 4500'. Plants
low, mostly about 2
dm. tall. Flowers
yellow.

Barberris repens Lindl.

Barberris repens? (5) ✓

8222 - May 12, 1959

Dry soil in the Sprague
River Canyon 4 miles
east of Bly, Klamath
Co., Oregon. Twp 37S, R 15E.
Elev. about 4500'. Flowers
yellow.

Alyssum alyssoides L.

Alyssum

2

Lupinus albus L. (35)

8223 May 10, 1951

Shrub 1.5-2.5 m.

Call in good soil along
the Sprague River 4
miles east of Bly,
Klamath Co., Oregon.

Elev. about 4500'.

Flowers yellow.

Ribes aureum Pursh



Ribes aureum 20

May 13, 1949

Flowering *Artemisia* on
roadside banks in ponderosa
pine area 11 miles southeast
of Riley, Lake Co., Oregon.
Twp. 37 S. R. 16 E.,
S. 29. Elev. about 5000'.
Flowers blue. Leaves
The same species absent in
abundance 1.5 miles farther

southeast in open mixed
Pinus ponderosa - *Abies*
grandis woods at Quartz
Creek Pass, 5500', where
just beginning to flower.

Ceanothus prostratus Benth.

Lupinus latifolius L. (35)

25 May 1931
Wet meadow in the Warner
Mts., 11 road miles west base
of Lakeview, Lake Co., Oregon,
Twp. 38S, R. 21E., S. 32.
Elev. about 5500'

Ranunculus alismaefolius
Geyer
var. *hartwegii* (Greene) Jeps.

116

122

127 at night

Ranunculus. luteus Greene

5226 - May 15, 1931

Dry borders of meadows,
along the edge of the
sagebrush (A. triv.) in
the Warner Mts. 11 road
miles north of
Tahoe, Lake Co., Oregon.
Twp. 33 S., R. 10 E., S. 32.
Elev. about 5500 feet.

Ranunculus occidentalis Nutt.
var. *dissectus* Henderson

ditto) *Ranunculus* - 1931

Lupinus latifolius (35)

8227. May 13, 1951

Same place as 8228.

Leaves glaucous, outer
leaves glaucous, the inner
reddish.

Paeonia brownii
✓ Dougl.

Paeonia brownii (1) ✓

5228 - May 13, 1957

With *Artemisia* cana
at edge of meadow in
the Warner Mts. 11 road
miles northeast of
Tahoe. Lake Tahoe.
Twp. 38 S, R. 21 E, S. 32.
Elev. about 5500.
Stems glaucous. Stems
clustered on a large coarse
taproot. The stout cauli-
ces become often decumbent.
Corolla blue, glaucous within.

Montanoa oblongifolia (Nutt.)
G. Don

Montanoa

(7)

Lupinus latifolius (35)

5229. May 13, 1952.

Edge of meadow in
the Warner Mts., 11 road
miles northwest of
Lakeview, Lake Co., Oregon.
Twp. 38 S., R. 21 E., S. 32.
Elev. about 5500'.

Flowers white to
light pink-lavender.

Hesperochiron californicum
~~(Benth.) Wats.~~
(Benth.) Wats.

Hesperochiron calif.

10

1950 - May 13, 1950.

Same place as 228,
Flowers light blue-lavender.

Hydrophyllum capitatum
Dough.
var. *alpinum* Wats.

Hydrophyllum c. (35)

Lupinus latifolius var. (35)

5231. - May 13, 1959.

Same place as 5203.

Plants rather loosely
scapitose; leaves

Somewhat pungent;
flowers white to
pale lavender, styles
4.5-5.5 mm. long.

Phlox diffusa Benth.
var. *longistylis* (Wherry)
Pech

Phlox 6

8232. May 13, 1959.

Same place as 8228.

Heads yellow. Rays

8-20, mostly about 13.

Balsamorhiza serrata Nels.

+ Macbr.



Balsamorhiza serrata 35

Lupinus latifolius 35

May 11, 1958

Woods sagebrush on basaltic
west slope 10 miles north
of Medford, Lake Co. Oregon.
Twp. 38 S., R. 24 E., S. 3.

Elev. 4500'. Bracts
pale yellowish-salmon
to bright red.

Castilleja chromosa A. Nels.
Dupl. det. Marion Cunningham

✓
Castilleja chromosa (5)

8234 - May 10 1959 With

Sagebrush on basaltic

East slope 2 miles south

of Plush, Lake Co., Oregon

Temp. 37.5, R. 24 E., S. 8.

Elev. 4500' Leaves

glaucous. Flowers white,
the keel purple-tipped

Astragalus lentiginosus

Dough

var. *platyphyllidius* (Rydb.)

Pch

Astragalus (3) ✓

Lupinus latifolius (35)

8015. May 12, 1957
Dissected basaltic rocks
on east-facing sagebrush
slope 2 miles south of
Pleash, Lake Co. Oregon,
Twp. 37S., R. 24E., S. 8.
Elev. 4500'.

Woodsia oregana Eat.

Woodsia

(8)

8236 - May 14, 1959

With *T. tridymia* and
Chalcidius in a rather
barren, sandy, gentle
west slope between
Grays Butte and the
north end of Alkali
Lake, 20 miles south-
southwest of Wagon-
tire, Lake Co., Oregon.
Trap: 30 S, R. 23 E, S. 3.
Elev. about 4500'.

F larvae white.
Rhysopterus

Rhysopterus plurijugus
Coult. & Rose

Rhysopterus (12)

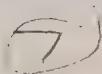
Lupinus latifolius (35)

8237 - May 14, 1959.
Same place as 8236.
1 small perianth.
 $2N = 14$.

Allium parvum Kell.
Dupl. det. Marian Crawley



allium



8238 - May 16, 1959

Sagebrush slopes about
Fish Lake; west side of
Steens Mts., 18 miles east
of French Glen, Harney Co.,
Oregon. Twp $32\frac{1}{2}$ S., R. 33 E.,
S. 29. Elev. 7000'.
Petals 5, yellow.

Ranunculus glaberrimus
Hook.
var. *ellipticus* Greene

Ranunculus glaberrimus (3)
Lupinus latifolius (35)

3239 May 16, 1957
Sagebrush slopes along
the west flank of the
Stansbury Mts. 14 miles
east of French Glen,
Harney Co., Oregon.
Twp. 32 S., R. 32 $\frac{3}{4}$ E., about
S. 33. Stems in small
clusters or occasionally
solitary. Leaves glaucous.
Flowers blue

Mertensia oblongifolia (Nutt.)
G. Don

6449

Mertensia oblongifolia (6)

8240 - May 16, 1957

With *Artemisia tridentata*
on west flank of the Steens
Mts., 7 miles east of
French Glen, Harney Co.,
Oregon. Twp. 32S, R. 32E.

Balsamorhiza serrata Nels. &
Macbr.

B. serrata (4)

Lupinus latifolius (35)

8241 - May 16, 1959
Same place as 8240
Bracts pale yellow green

Castilleja longispica A. Nels.
Rupl. det. Marion Cunningham

Castilleja (6) ✓

8242 - May 16, 1959

Lawn ground along Home Creek,
in sagebrush country at the
west base of the Steens Mts.,
23 miles south of French
Creek, Harney Co., Oregon.
Twp. 35 S., R. 32 E., S. 10.
Elev. about 4500'.
Flowers yellow.

Oenothera tanacetifolia
T. + G.

so, *Oenothera*. (11)

Lupinus latifolius (35)

8243- May 16, 1959
Same place as 8242.
Flowers white.

Veronica peregrina L.
var. *xalapensis* (HBK) St. John
+ Warren

Veronica peregrina

(6)

8244 - May 16, 1949
Same place as 8242
Petals yellow, small,
about equalling the
sepals, deciduous.

Potentilla biennis Greene

do, *Potentilla* (5)
Lupinus (35)

8245 - May 16, 1959

Same place as 8242
Plants strongly spreading below ground, the stems also more or less clustered. Herbage glaucous. Flowers yellow.

Thermopsis montana Nutt.
var. *ovata* (Robins.) St. John

16.6m

Thermopsis (35)

8246 - May 17, 1959

With sagebrush along
the west base of the
Steens Mts. 30 miles
south of Frenchglen,
Harney Co., Oregon.

Twp. $35\frac{1}{2}$ S., R. $32\frac{1}{2}$ E., S. 20

Elev. about 4500'

Rays lavender; disk yellow.

Erigeron pumilus Nutt.
ssp. *intermedius* Cronq.
var. *gracilior* Cronq.

Erigeron pumilus (2)

Erigeron pumilus (35)

9471 May 17, 1959

Rather barren, gravelly
soil with scattered
sagebrush, and on roadside
banks, just northwest of the
summit of Long Hollow,
7 miles northwest of
Fields, Harney Co., Oregon.
Elev. about 5500. Twp. 37 S.,
R. 32 $\frac{3}{4}$ E., S. 20. Flowers
white.

Dimeresia howellii, Gray

Dimeresia

(35)

8248 May 17, 1959

With sagebrush in
sandy soil; hills 2 miles
northwest of Field,

Harney Co. Oregon Twp. 37S,
R. 32E S. 35. Elev.
about 4400'

Perideridia bolanderi
(Gray) Nels. & Machr.

See *Perideridia* (5) ~~manuscript~~ ✓

Lupinus latifolius (35)

8208 May 17, 1959

Same place as 8208.

Plants prostrate.
Corolla with yellow
tube and lavender
purple limb.

Phacelia gymnoclada Torr.

1709

Phacelia (3)



8250 - May 19, 1959

With sagebrush on
basaltic rocky slopes
near Alward Creek, at
the east base of the
Steens Mts., 100 miles
southeast of Burns
Harney Co., Oregon.

Twp. 34 S., R. 34 E., S. 4

Elev. 4500'. Stems

erect, branched, caudex
and branched caudex;

harrow with a large

central spot,

the corolla throat cream.

lobes or tinged with lavender.
(See last page for more data)

Lupinus latifolius Dougl.

var. *calcaratus* (Kell.) J. P. Smith

See *Lupinus* etc. 85

Lupinus latifolius (35)

52 - May 17, 1907

In rivulet on alluvial
fan near Alvord Creek,
in sagebrush country
at the east base of the
Steno mts. 100 miles
southwest of Burns,
Harney Co., Oregon.

Twp. 34S, R. 34E, S. 4.

Elev. about 4500'

Fronde broadly elliptic,
^{up to} 3 mm. long, 2 mm. wide,
apparently nameless.

Lemna minima Phil.

Lemna

(10)

8251 - May 14, 1951

Same place as 8250. Stems
numerous on taproot and
branched caudex. Flowers
light to dark blue. The
corolla tube is a large white
spot. Calyx barely to
conspicuously spurred.
With #8250, *L. latiflorus*
var. *calcaratus*
but tending to replace
it on different hill sides
rather than closely
intermingled. A few plants at
points of contact have flowers of
intermediate colors.

Lupinus caudatus Kell. /

Lupinus latifolius (35)

On loose talus slopes
overlooking south tributary
of Silver Creek in the
foothills of the Coast
Range of the Siskiyou Mts., 100
miles southeast of Burns,
Harney Co., Oregon.

Twp. 33 S., R. 34 E., S. 33

Elev. about 4500-5000

Talus plant forming mats up
to 5 dm. wide, with creeping
stems and roots. The smaller
plants with a definite
tap root. *Flammocaulis*?

Arenaria nuttallii Pax, passing
to var. *fragilis* (Magne + Holmgren)
C. L. Hitchc., some plants with
longer, sharper, more veiny sepals

(5) than others

8254 May 19 '57

Ridge top overlooking
south tributary to Almond
Creek, in the foothills at
the east base of the
Mts., 100 miles southeast
of Denver, Arapahoe Co.,
Wyoming. Twp. 7-35, R. 1-15.
33 Elev. about 5000'.
Rays 7-15, bright purple

Aster scopulorum Gray

Aster scopulorum

8255- May 20, 1959
Sagebrush slopes along
south Tributary to
Alvord Creek, above the
falls; east front of the Steens
Mts., 100 miles southeast
of Burns, Harney Co., Oregon.
Twp. 33 S., R. 34 E., S. 32.

Elev. about 7000'.

Flowers yellow, the upper
petals coppery red outside.

Viola purpurea Kell.
var. *venosa* (Wats.) Brainerd

854

Viola purpurea (15)

97.6 - Rhy.
 10. - road to Silver Lake
 14. - Harney Co.
 18.7 Wagoner

46.5

75.1

78.5

+2 } 28.6

14.3

60.8

71.1

14.3

3.4

17.7

68675.9 at Almond Camp

8250 - Can't. With #8251, L.
 caudatus, but tending to replace
 it on different hillsides, rather than
 closely intermingled. A few plants at
 points of contact have flowers of
 intermediate colors.

522.6

not quite 2 miles

7 junction

- 2.3 miles ne. 7 Brothers

8256 - *Polystichum* (8)

8257 - *Allium* (13)

8258 - *Arabis microphylla* (15)

8259 - larger *Arabis* (5)

8260 - *Castilleja* (4) - viscid, red

8261 - *Sedum* (2)

8262 - Willow 3 m. (8) - lvs. serrate

8263 - Willow 3 m. (4) - lvs. entire

8264 - Willow - 4 m. (4)

8265 - *Eriogonum* (1)

8266 - *Pteris*? (35)

8267 - May 22. Poplar - Alford Cr. 4010m. (20)

8268 - *Sc. nana* - full lavender + ochrole (7)

8269 - *M. s. and* (35)

